

ABSTRACT

Transmission data in a different interleaving pattern is input for each retransmission via interleaver 31 to outer coding processing section 32 that performs coding processing with a strong correction capability for the burst error such as Reed-Solomon coding. Inner coding processing section 33 performs coding processing with a strong correction capability for the random error such as turbo coding. Different outer code parity bits are thus transmitted for each retransmission, and the decoding side is capable of performing outer code decoding processing using different outer code parity bits corresponding to the number of retransmissions, and thus improves the correction capability for the burst error. As a result, it is possible to acquire both the combining gain due to the inner coding processing and the diversity effect due to the outer code by retransmission, and it is thus possible to effectively reduce both the random error and burst error while taking full advantage of retransmission.